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APPLICATION NO.	FILI	NG DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/632,795	08/04/2003		Duk-Yong Kim	P56939	5556
7590 11/22/2005		11/22/2005		EXAM	INER
Robert E. Bus Suite 300	shnell		GILMAN, ALEXANDER		
1522 K Street,	N.W.		ART UNIT	PAPER NUMBER	
Washington, D		5	2833		
			DATE MAILED: 11/22/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	•	Application No.	Applicant(s)	90				
		10/632,795	KIM ET AL.	()				
	Office Action Summary	Examiner	Art Unit					
		Alexander D. Gilman	2833					
Period fo	The MAILING DATE of this communication apport	pears on the cover sheet with the c	orrespondence ad	dress				
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLICATION OF THE MAILING DISSIDERATION OF THE MAILING DEPTH OF T	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timwill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this of D (35 U.S.C. § 133).					
Status								
1)⊠	Responsive to communication(s) filed on <u>08 S</u>	eptember 2005.						
2a)⊠	This action is FINAL . 2b) This action is non-final.							
3)[secution as to the	e merits is						
	closed in accordance with the practice under t	Ex parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.					
Disposit	on of Claims							
4)⊠	Claim(s) <u>1-5,8,9 and 11-17</u> is/are pending in the	ne application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)[5) Claim(s) is/are allowed.							
6)⊠	☑ Claim(s) <u>1-5,8,9,11-17</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
8)□	8) Claim(s) are subject to restriction and/or election requirement.							
Applicat	on Papers							
9)[]	The specification is objected to by the Examine	er.						
10)[10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including the correct	tion is required if the drawing(s) is ob	jected to. See 37 C	FR 1.121(d).				
11)	The oath or declaration is objected to by the Ex	xaminer. Note the attached Office	Action or form P	TO-152.				
Priority (ınder 35 U.S.C. § 119							
-	Acknowledgment is made of a claim for foreigr ☐ All b) ☐ Some * c) ☐ None of:	n priority under 35 U.S.C. § 119(a)-(d) or (f).	•				
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
•	3. Copies of the certified copies of the prior	rity documents have been receive	ed in this Nationa	l Stage				
	application from the International Burea							
* (See the attached detailed Office action for a list	of the certified copies not receive	ed.					
A44	A(a)							
Attachmen 1) Notice	t(s) ee of References Cited (PTO-892)	4) Interview Summary	(PTO-413)					
2) Notic	e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate					
	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) or No(s)/Mail Date 10/13/2005.	5) Notice of Informal F 6) Other:	atent Application (PT	O-152)				

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 2, 4, 5, 8, 9, 11, 13, 14, 16, 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ryman in view of European Patent Application (EP 0 746 051) and Kojima et al or Monnett.

With regard to claims 1,4, 9, 12, 13 17, Ryman (US 6,721,155) discloses a bias-T apparatus comprising: a housing (12) comprising an input connector (15) to be connected to a groundbase transceiver station and an output connector (16) to be corrected to an antenna, said input connector and said output connector integrally fonned at opposite sides of the housing, the housing having a housing hole and a fixing hole, the housing hole being formed longitudinally in the housing, the fixing hole connected perpndicularly to the housing hole;

a center conductor (20) inserted in the housing hole and including a frst conductor and a second conductor, which have a first connector pin and a second connector pin, respectively, the first connector pin and the second connector pin being respectively inserted inside of theoutput connector and the input connector, thereby enabling electric connection of a signal between the input connector and the output cormector; and

a fixing pin having a first end (30) connected perpendicularly to the center conductor and a second end (34) inserted in the fixing hole, so that direct current power can be supplied from the second end to the output connector.

Ryman explicitly do not disclose the conductor shaft being inserted in the reception tube so that the frst conductor and the second conductor are assembled with each other (and function as electrode plates of

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the capacitor, according to the Specification, p. 9, lines 5, 6), while Ryman disclosing the capacitor structure claimed but applied to the component 14.(col. 6, lines 51-54).

European Patent Application (EP 0 746 051) disclose (Fig. 2, 3, 5 the conductor shaft (PF) being inserted in the reception tube (CC) so that the frst conductor and the second conductor are assembled with each other

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide Ryman with the capacitance device, as taught by European Patent Application (EP 0 746 051), to simplify the capacitive mechanism.

With regard to claims 2, 5, 14, Ryman discloses the housing has a recess (recess receving 14). With regard to claim 16, Ryman discloses a gas tube arrester (60) and diodes.

Claims 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ryman in view of European Patent Application (EP 0 746 051) and further Kojima et al or Monnett

Ryman-European Patent Application (EP 0 746 051) do not disclose anodization one of the reception tube or the shaft.

Kojima et al (US 6,719,813) and Monnett (US 6,791,821 disclose a solid electrolytic capacitor with galvanic anodization (col. 2, lines 66-67 through col. 3, lines 1-3).

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide Ryman with the capacitance device, as taught by Monnett or Kojima et al., to achieve the required capacitive operational parameters.

Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ryman in view of European Patent Application (EP 0 746 051) and further in view of Sato et al.

Ryman when modified by European Patent Application (EP 0 746 051) disclose all of the limitations as applied to claims 4, 12, above but does not disclose the EMI filter using coils and dielectric materials.

Sato et al (US 5,206,779) disclose EMI filter using coils and dielectric materials (Fig. 5)

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide Ryman with the EMI filter, as taught by Sato et al , to effectively

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suppress the EMI noise.

Response to Arguments

Applicant's arguments with respect to claims 1, 3, 4 have been considered but are moot in view of the new ground(s) of rejection.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexander D. Gilman whose telephone number is 571 272-2004. The examiner can normally be reached on Monday-Friday, 10:30 a.m. - 8:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paula A. Bradley can be reached on 571 272-2800 ext. 33. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

11/12/2005

ALEXANDER GILMAN PRIMARY EXAMINER